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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,825	12/02/2003	Tomoko Matsudai	244398US-2-CONT	2763
22850	7590 03/23/2005		EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			FENTY, JESSE A	
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•		2815	
			DATE MAILED: 03/23/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/724,825	MATSUDAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jesse A. Fenty	2815			
The MAILING DATE of this communicated for Reply	ation appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communing the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum statu. Failure to reply within the set or extended period for reply with Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a relication. days, a reply within the statutory minimum of thirt tory period will apply and will expire SIX (6) MON II, by statute, cause the application to become AE	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed	on <u>18 December 2004</u> .				
, = .)⊠ This action is non-final.				
3) Since this application is in condition for	,—				
closed in accordance with the practice	e under <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 21-35 is/are pending in the a	Claim(s) <u>21-35</u> is/are pending in the application.				
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>21-35</u> is/are rejected.	Claim(s) 21-35 is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	on and/or election requirement.				
Application Papers					
9) The specification is objected to by the	Examiner.				
10) The drawing(s) filed on is/are: a	a) accepted or b) objected to	by the Examiner.			
Applicant may not request that any objecti	ion to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the	he correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to I	by the Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority do	ocuments have been received.				
· · · · · · · · · · · · · · · · · · ·	ocuments have been received in A				
3. Copies of the certified copies of	· · · · · · · · · · · · · · · · · · ·	received in this National Stage			
application from the Internation * See the attached detailed Office action	, , , , , , , , , , , , , , , , , , , ,	received			
coo the attached detailed Office action	to. a not of the contined copies not	,			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTo 3) Information Disclosure Statement(s) (PTO-1449 or P 		s)/Mail Date nformal Patent Application (PTO-152)			
Paper No(s)/Mail Date <u>12/02/03</u> .	6) Other:				

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On pp. 14, line 23, "velocitys" should be corrected with "velocities." Applicant must review the specification and claims for any and all grammatical, typographical and spelling errors.

Appropriate correction is required.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21- 35 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3, 6 and 19 of U.S. Patent No. 6,664,591.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the limitations regarding the voltage transiently applied to the device simply recite an intended use of the claimed invention. Terms that simply set forth the intended use, a property

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inherent in or a function, do not differentiate the claimed composition of these elements from those known to prior art.

The behavior of the semiconductor device is dependent upon the structure of the semiconductor device. In this instance, the claimed structure is a first base layer, a second base layer, source layer, gate electrode and drain layer. The physical structure that drives the injection efficiency of the hole current (Applicant's specification pp. 8, lines 16-36) as well as dictates the behavior of the circuit when the voltage is transiently applied is dependent upon the dopant concentration of the drain layer, the buffer layer, and the thickness of the drain layer. These limitations are clearly expressed in the patented claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jesse A. Fenty whose telephone number is 571-272-1729. The examiner can normally be reached on 5/4-9 1st Fri. Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fesse A. Fenty Examiner

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